TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-03-16-02** **Date: 21-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road at Naidu layout in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th Cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/137/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-03-17
Sample ID No	:	2017-03-16-01/01
Customer ID	:	PCC(1:2:4)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/03/2017

AE 11

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC(1:2:4)	M15	13/03/2017	20/03/2017	149.65 X 151.28 X 151.09	22639	8.106	273.9	12.1	11.9
2	PCC(1:2:4)	M15	13/03/2017	20/03/2017	151.53 X 150.98 X 151.43	22878	8.143	279.1	12.2	
3	PCC(1:2:4)	M15	13/03/2017	20/03/2017	150.82 X 150.23 X 151.81	22658	8.176	258.3	11.4	

Note:
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Prepared by
Harsitha

FOR CIVIL Pro.
CIVIL PRO Sig..... Date..... BANGALORE
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-16-02** **Date: 11-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC road at Naidu layout in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, No.119, 11th Cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/137/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-03-17

Sample ID No : 2017-03-16-01/02

Customer ID : PCC(1:2:4)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC(1:2:4)	M15	13/03/2017	10/04/2017	151.22 X 150.72 X 150.27	22792	8.186	421.6	18.5	18.0
2	PCC(1:2:4)	M15	13/03/2017	10/04/2017	150.09 X 149.11 X 150.28	22567	8.193	392.7	17.4	
3	PCC(1:2:4)	M15	13/03/2017	10/04/2017	150.87 X 150.28 X 149.09	22568	8.173	408.5	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-21-03** **Date: 25-03-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC road at Naidu layout in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, No.119, 11th Cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/137/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-03-17

Sample ID No : 2017-03-21-03/01

Customer ID : PCC(1:1.5:3)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC(1:1.5:3)	M20	17/03/2017	24/03/2017	151.22 X 150.82 X 150.38	22807	8.161	383.2	16.8	16.8
2	PCC(1:1.5:3)	M20	17/03/2017	24/03/2017	150.04 X 149.31 X 148.94	22402	8.119	385.3	17.2	
3	PCC(1:1.5:3)	M20	17/03/2017	24/03/2017	151.02 X 150.72 X 150.83	22762	8.153	373.3	16.4	

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Prepared by
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-21-03** **Date: 15-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC road at Naidu layout in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, No.119, 11th Cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/137/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-03-17

Sample ID No : 2017-03-21-03/02

Customer ID : PCC(1:1.5:3)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC(1:1.5:3)	M20	17/03/2017	14/04/2017	151.18 X 149.53 X 150.87	22606	8.139	549.3	24.3	23.7
2	PCC(1:1.5:3)	M20	17/03/2017	14/04/2017	151.29 X 150.87 X 151.00	22825	8.148	541.0	23.7	
3	PCC(1:1.5:3)	M20	17/03/2017	14/04/2017	149.58 X 151.85 X 151.33	22714	8.183	524.7	23.1	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-24-01** **Date: 30-03-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC road at Naidu layout in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, No.119, 11th Cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/137/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-03-17

Sample ID No : 2017-03-24-01/01

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	22/03/2017	29/03/2017	150.72 X 149.58 X 150.15	22545	8.152	390.0	17.3	17.1
2	Cement Concrete Pavement	M20	22/03/2017	29/03/2017	151.36 X 149.22 X 151.09	22586	8.058	379.4	16.8	
3	Cement Concrete Pavement	M20	22/03/2017	29/03/2017	150.28 X 151.33 X 151.72	22742	8.193	391.2	17.2	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-24-01** **Date: 20-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC road at Naidu layout in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, No.119, 11th Cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/137/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-03-17

Sample ID No : 2017-03-24-01/02

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	22/03/2017	19/04/2017	149.11 X 151.29 X 150.87	22559	8.184	514.3	22.8	23.6
2	Cement Concrete Pavement	M20	22/03/2017	19/04/2017	150.37 X 151.41 X 149.38	22768	8.162	541.9	23.8	
3	Cement Concrete Pavement	M20	22/03/2017	19/04/2017	150.22 X 150.98 X 150.87	22680	8.176	546.6	24.1	

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-02-25-05** **Date: 08-03-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road at Naidu layout in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th Cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/137/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	25-02-17
Sample ID No	:	2017-02-25-05-02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	27-02-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken: 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	126	126	2.52	97.5	95-100
3	20 mm	2265	2391	47.82	52.2	30-70
4	10 mm	1652	4043	80.86	19.1	10-35
5	4.75 mm	765	4808	96.16	3.8	0-5
6	Pan	192	5000	100	0.0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-02-25-05** **Date: 08-03-2017**

Sample ID No : 2017-02-25-05-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	8.9	_
2	Elongation Index(%)	12.5	_
3	Specific Gravity	2.61	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.54	_
6	Water Absorption(%)	0.23	_

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Quality Manager

****End of Report****

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-02-25-05** **Date: 08-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road at Naidu layout in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th Cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/137/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-17
Sample ID No	:	2017-02-25-05-03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	27-02-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	122	154	15.4	84.6	60-95	75-100	85-100	95-100
4	1.18 mm	213	367	36.7	63.3	30-70	55-90	75-100	90-100
5	600 micron	162	529	52.9	47.1	15-34	35-59	60-79	80-100
6	300 micron	218	747	74.7	25.3	5-20	8-30	12-40	15-50
7	150 micron	199	946	94.6	5.4	0-10	0-10	0-10	0-15
8	Pan	54	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-02-25-05** **Date: 08-03-17**

Sample ID No : 2017-02-25-05-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	1.98	_
2	Specific Gravity	2.54	_
3	Material finer than 75 micron(%)	5.8	Not more than 15 percent

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-02-25-05** **Date: 26-03-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road at Naidu layout in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.
Agency		Executive Engineer, KRIDL, No.119, 11th Cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/137/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-17
Sample ID No	:	2017-02-25-05-01
Sample Type	:	Birla Super 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	25-02-2017 to 25-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.92	–
2	Finess by Air permeablity method (m2/kg, Min)	292.1	225m^2/kg, Min
3	Density (gm/cc)	3.20	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	195 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-02-25-05** **Date: 26-03-2017**

Sample ID No : **2017-02-25-05-01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

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Harshitha

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-02-25-05** **Date: 08-03-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road at Naidu layout in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th Cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003.
Customer Reference	:	BBMP/EE/BTP/WO/137/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-17
Sample ID No	:	2017-02-25-05-02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	27-02-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	171	171	3.4	96.6	95-100
3	10 mm	2754	2925	58.5	41.5	25-55
4	4.75 mm	1971	4896	97.9	2.1	0-5
5	Pan	104	5000	100	0	–

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-02-25-05** **Date: 06-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road at Naidu layout in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th Cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/137/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-17
Sample ID No	:	2017-02-25-05-04
Sample Type	:	Bhuwalka Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	01-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Bhuwalka	Fe500	8mm	0.395	548	621	18.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Bhuwalka	Fe500	8mm	Satisfactory	Satisfactory

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-02-25-05** **Date: 06-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road at Naidu layout in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th Cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/137/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-17
Sample ID No	:	2017-02-25-05-05
Sample Type	:	Bhuwalka Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	01-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Bhuwalka	Fe500	10mm	0.611	572	663	19.5%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Bhuwalka	Fe500	10mm	Satisfactory	Satisfactory

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Prepared By:
Harshitha

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-02-25-05** **Date: 06-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road at Naidu layout in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th Cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/137/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-17
Sample ID No	:	2017-02-25-05-06
Sample Type	:	Bhuwalka Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	01-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Bhuwalka	Fe500	12mm	0.882	580	672	10.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Bhuwalka	Fe500	12mm	Satisfactory	Satisfactory

Note:
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Authorized Signature
Quality Manager

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-04-18-01** **Date: 26-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road at Naidu layout in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th Cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/137/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-04-17
Sample ID No	:	2017-04-18-01/01
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	19/04/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.01	250.51	3.165	17670	292.9	16.6	16.1	20.1
2	Cover Slab-2	150.04	250.52	3.187	17678	286.2	16.2	15.7	19.6
3	Cover Slab-3	150.01	250.52	3.172	17670	290.6	16.4	16.0	19.9

Note:
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Prepared by
Harshitha

FOR CIVIL Pro.
CIVIL PRO Sig..... Date..... BANGALORE
R KARTHIK RECHAN
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Quality Manager

****End of Report****

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